

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P642450

Luminaire Tested: GWS-SA6C-830-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-830-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16896.1 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

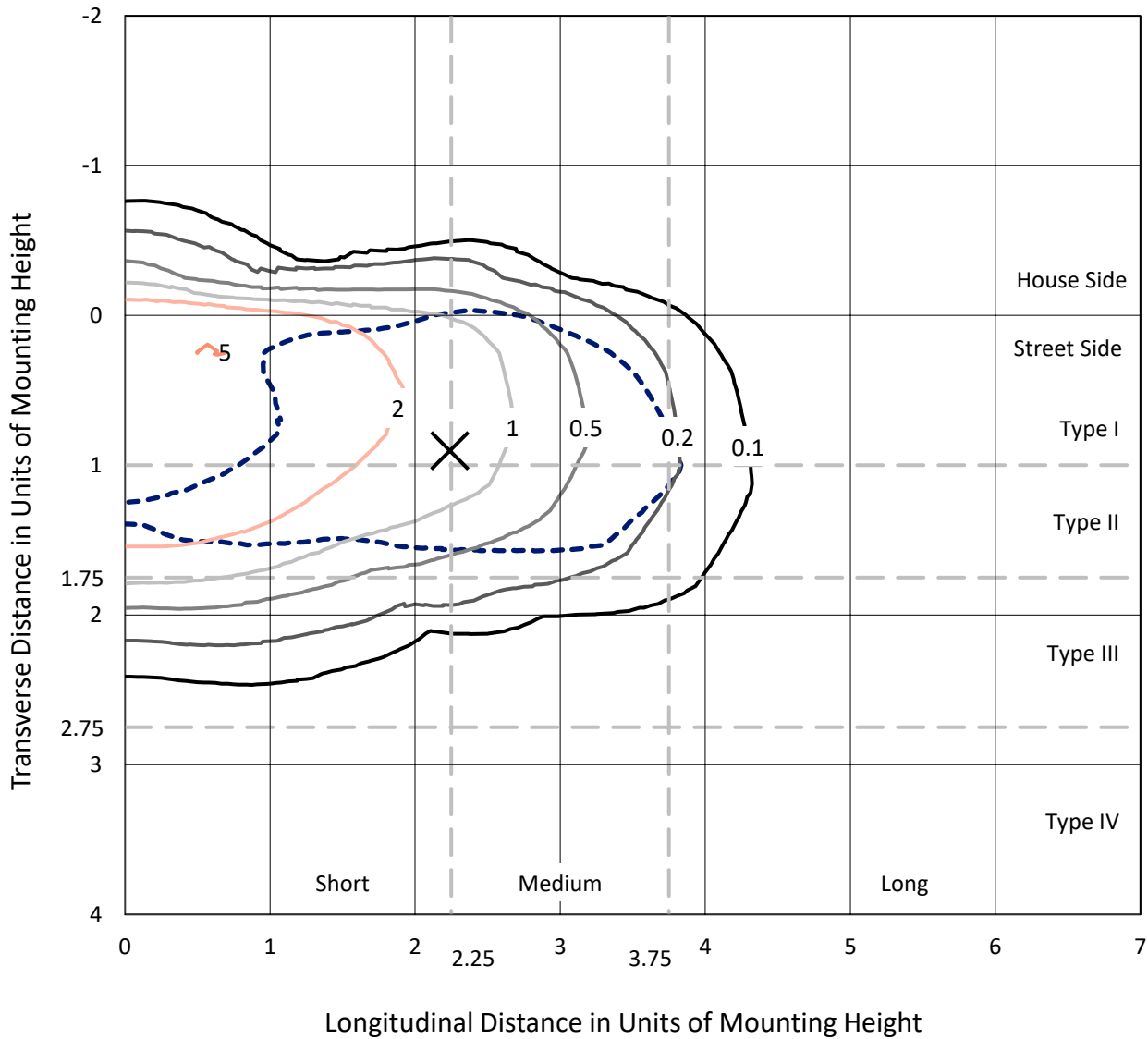
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

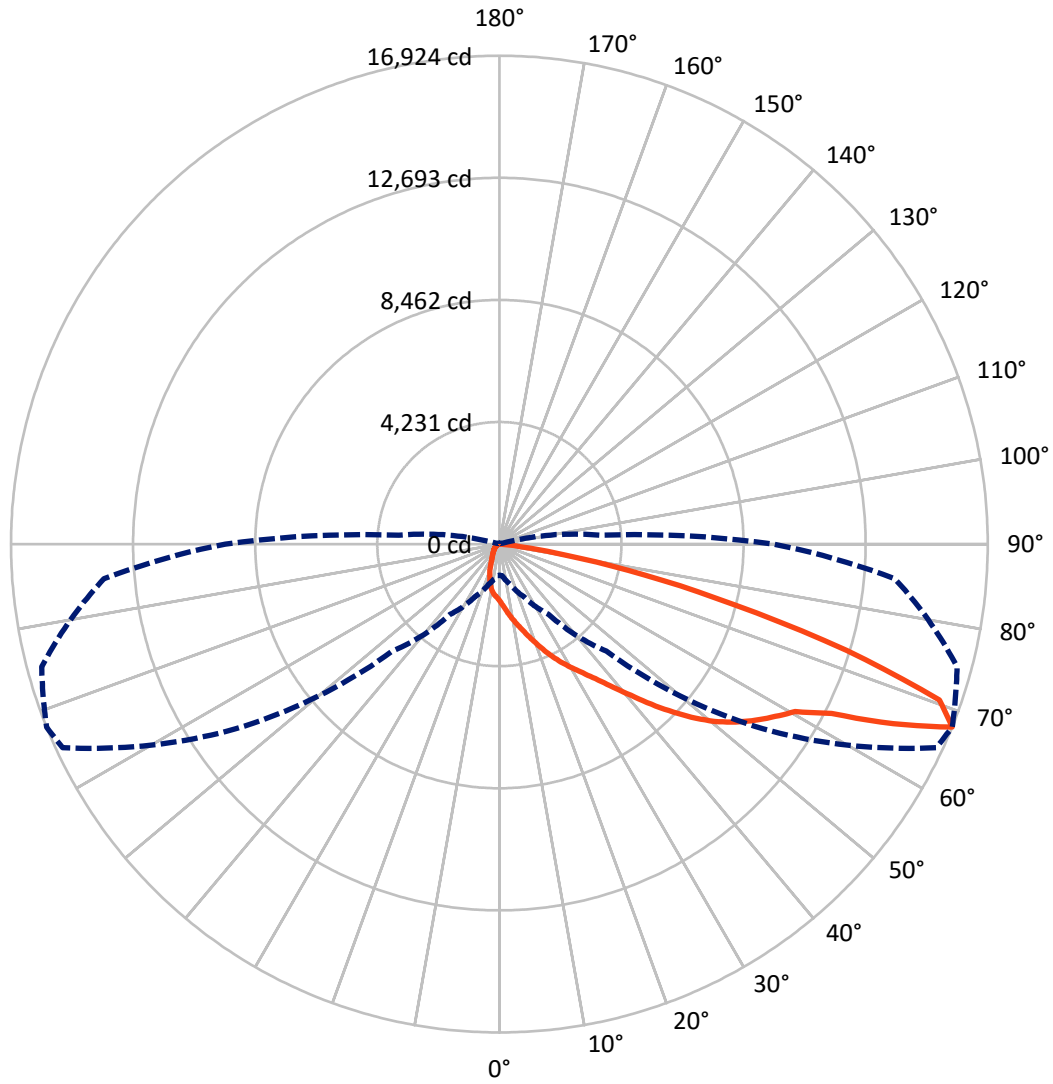
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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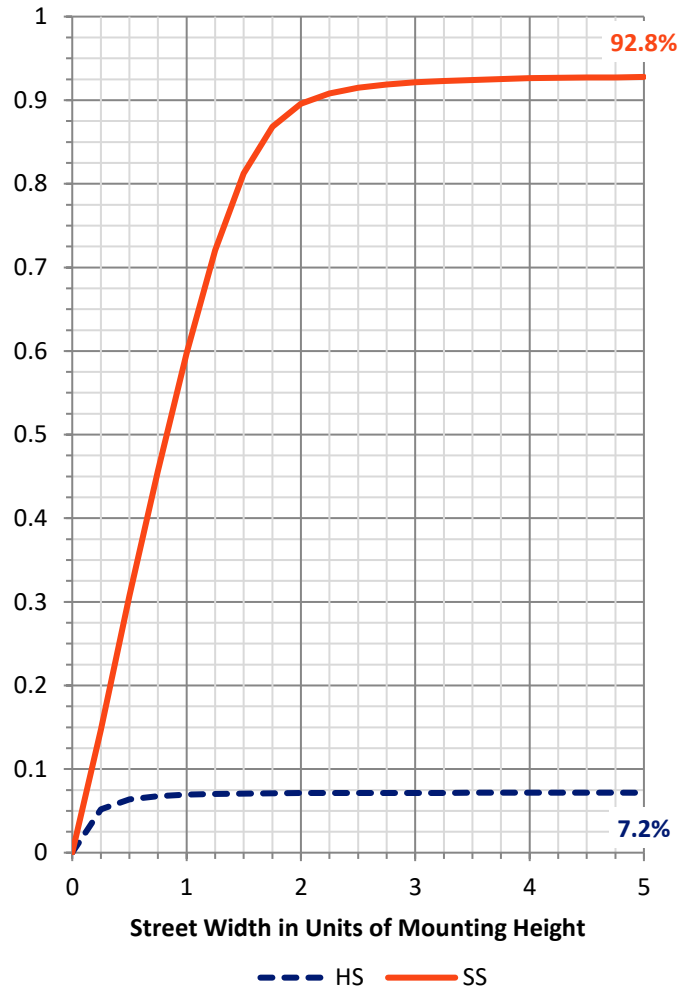
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1220.1	0.0	1220.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	15676.0	0.0	15676.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	16896.1	0.0	16896.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	1.1
10°-20°	550.7	3.3
20°-30°	946.4	5.6
30°-40°	1645.4	9.7
40°-50°	2871.1	17.0
50°-60°	4330.4	25.6
60°-70°	4342.2	25.7
70°-80°	1915.8	11.3
80°-90°	102.3	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16896.1	100.0
0°-180°	16896.1	100.0

Coefficient of Utilization



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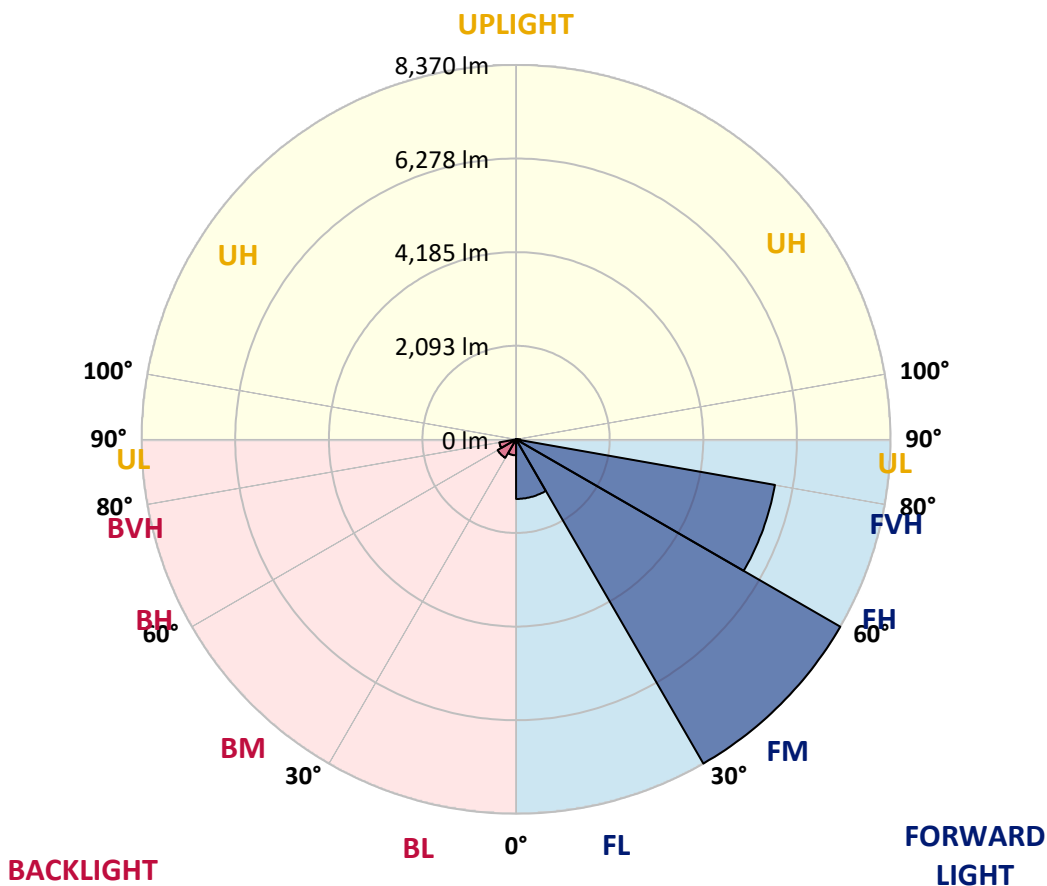
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1331.9	7.9			
FM (30°-60°)	8370.3	49.5			
FH (60°-80°)	5877.2	34.8			G3/7500
FVH (80°-90°)	96.6	0.6			G1/100
BL (0°-30°)	356.9	2.1	B1/500		
BM (30°-60°)	476.6	2.8	B1/1000		
BH (60°-80°)	380.8	2.3	B1/500		G1/500
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3
2.5°	2289.7	2304.2	2289.7	2292.9	2250.9	2231.5	2189.4	2131.2	2116.7	2079.5	2022.9
5°	2569.4	2582.4	2567.8	2564.6	2516.1	2480.5	2411.0	2310.7	2281.6	2208.8	2097.3
7.5°	2721.4	2729.5	2734.4	2742.4	2724.7	2695.5	2632.5	2508.0	2477.2	2359.2	2202.4
10°	2737.6	2744.1	2768.3	2816.8	2852.4	2870.2	2834.6	2719.8	2671.3	2556.5	2331.7
12.5°	2692.3	2702.0	2740.8	2821.7	2920.3	3010.9	3033.5	2933.2	2889.6	2742.4	2483.7
15°	2632.5	2640.6	2693.9	2803.9	2952.6	3119.2	3213.0	3169.3	3120.8	2967.2	2651.9
17.5°	2540.3	2551.6	2626.0	2774.8	2967.2	3204.9	3407.0	3421.6	3387.6	3221.1	2837.8
20°	2488.6	2496.7	2563.0	2716.6	2957.5	3268.0	3588.1	3725.6	3688.4	3513.7	3051.3
22.5°	2532.2	2538.7	2582.4	2702.0	2925.2	3303.5	3756.3	4029.6	4008.6	3827.4	3276.0
25°	2761.8	2782.9	2757.0	2778.0	2939.7	3322.9	3892.1	4333.6	4338.4	4155.7	3508.9
27.5°	3227.5	3200.1	3138.6	3033.5	3052.9	3374.7	4008.6	4619.8	4661.8	4475.9	3715.9
30°	3701.3	3685.2	3648.0	3484.6	3348.8	3489.5	4107.2	4912.5	4978.8	4791.2	3900.2
32.5°	4233.3	4249.5	4183.2	3987.5	3756.3	3722.3	4209.1	5190.6	5315.1	5148.5	4116.9
35°	4868.8	4873.6	4742.7	4526.0	4264.0	4107.2	4391.8	5497.8	5727.4	5604.5	4406.3
37.5°	5488.1	5517.2	5446.1	5104.9	4872.0	4585.8	4694.2	5892.4	6215.8	6167.3	4770.2
40°	6036.3	6081.6	6058.9	5729.0	5423.4	5182.5	5163.1	6354.8	6806.0	6860.9	5250.4
42.5°	6472.9	6502.0	6519.8	6285.3	6015.3	5879.4	5742.0	6891.7	7502.9	7727.7	5839.0
45°	6933.7	6943.4	6980.6	6822.1	6586.1	6597.4	6426.0	7543.3	8237.0	8688.2	6514.9
47.5°	7520.7	7553.0	7535.2	7368.7	7155.2	7283.0	7132.6	8214.4	8961.4	9713.3	7207.0
50°	8235.4	8269.4	8253.2	8059.1	7821.4	7874.8	7781.0	8866.0	9660.0	10680.3	7782.6
52.5°	8604.1	8631.6	8832.1	8919.4	8794.9	8455.3	8334.0	9582.4	10250.2	11475.9	8311.4
55°	8426.2	8445.6	8882.2	9250.9	9706.9	9367.3	8890.3	10135.4	10770.9	12096.8	8704.3
57.5°	7688.9	7794.0	8387.4	9011.6	9970.4	10268.0	9792.6	10736.9	11272.1	12528.5	9090.8
60°	6177.0	6172.1	7022.6	8143.2	9456.2	10515.4	11066.8	11550.3	11775.0	12860.0	9608.2
62.5°	3413.5	3444.2	4576.1	6052.4	8026.8	9875.0	12022.4	12955.4	12921.5	13438.9	10418.4
65°	1699.5	1760.9	2375.4	3466.9	5341.0	8161.0	12187.4	15099.6	15002.6	14802.1	12092.0
67.5°	1078.5	1102.8	1442.4	2014.8	2968.8	5245.6	11160.6	16698.8	16923.6	16419.1	13752.6
70°	698.5	739.0	1002.5	1377.7	1791.6	2703.6	8175.6	15662.3	16178.1	16241.2	12717.7
72.5°	380.0	409.1	640.3	983.1	1293.6	1351.8	4592.3	11754.0	12583.5	13776.9	9949.4
75°	216.7	237.7	350.9	667.8	949.2	823.1	2035.8	7868.3	8397.1	9845.9	7129.4
77.5°	131.0	148.8	197.3	325.0	595.1	549.8	769.7	4789.6	5125.9	5874.6	3741.7
80°	59.8	71.1	124.5	179.5	325.0	260.3	294.3	2233.1	2305.8	2411.0	1238.6
82.5°	27.5	32.3	56.6	106.7	184.3	150.4	113.2	515.8	726.0	687.2	315.3
85°	3.2	3.2	21.0	43.7	51.7	38.8	46.9	116.4	147.1	207.0	90.6
87.5°	0.0	0.0	1.6	1.6	3.2	4.9	9.7	14.6	21.0	34.0	22.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3
2.5°	1997.0	1951.7	1911.3	1851.5	1811.0	1765.8	1735.0	1697.9	1683.3	1672.0	1655.8
5°	2042.3	1969.5	1870.9	1760.9	1670.4	1584.7	1505.4	1453.7	1408.4	1401.9	1379.3
7.5°	2116.7	2008.3	1841.8	1662.3	1508.7	1366.4	1254.8	1164.2	1119.0	1104.4	1078.5
10°	2215.3	2066.5	1798.1	1523.2	1301.7	1131.9	1005.8	903.9	832.8	806.9	787.5
12.5°	2325.3	2119.9	1728.6	1351.8	1099.6	905.5	745.4	637.1	591.8	575.7	561.1
15°	2451.4	2170.0	1618.6	1180.4	902.3	666.2	553.0	506.1	486.7	481.9	477.0
17.5°	2572.7	2202.4	1487.6	1002.5	693.7	517.4	464.1	446.3	441.4	436.6	433.4
20°	2710.1	2225.0	1334.0	834.4	538.5	438.2	412.3	399.4	389.7	380.0	378.4
22.5°	2850.8	2225.0	1167.5	669.4	451.1	392.9	363.8	339.6	321.8	312.1	308.8
25°	2985.0	2194.3	1002.5	535.2	397.8	349.3	312.1	284.6	260.3	249.0	245.8
27.5°	3080.4	2115.0	858.6	452.8	360.6	310.5	265.2	234.5	215.1	203.7	202.1
30°	3140.2	1997.0	726.0	404.3	328.3	270.0	224.8	198.9	184.3	176.3	173.0
32.5°	3185.5	1851.5	608.0	370.3	297.5	234.5	195.7	174.6	161.7	155.2	153.6
35°	3276.0	1714.0	520.7	339.6	265.2	205.4	171.4	155.2	145.5	137.4	135.8
37.5°	3402.2	1599.2	451.1	312.1	234.5	182.7	155.2	140.7	132.6	124.5	122.9
40°	3588.1	1526.5	399.4	284.6	207.0	164.9	142.3	129.4	118.0	110.0	108.3
42.5°	3874.3	1492.5	365.4	257.1	182.7	148.8	131.0	114.8	103.5	95.4	93.8
45°	4215.5	1510.3	336.3	229.6	166.6	137.4	116.4	100.3	88.9	80.9	79.2
47.5°	4581.0	1573.3	312.1	203.7	150.4	126.1	103.5	85.7	76.0	67.9	66.3
50°	4962.6	1676.8	291.1	179.5	137.4	113.2	88.9	74.4	64.7	58.2	56.6
52.5°	5294.1	1817.5	270.0	161.7	126.1	100.3	77.6	64.7	55.0	48.5	46.9
55°	5611.0	1950.1	253.9	145.5	113.2	87.3	67.9	55.0	46.9	40.4	38.8
57.5°	5955.4	2090.8	234.5	131.0	101.9	77.6	59.8	46.9	40.4	34.0	32.3
60°	6456.7	2299.4	205.4	119.7	88.9	67.9	51.7	42.0	35.6	27.5	25.9
62.5°	7179.5	2679.4	173.0	103.5	76.0	58.2	43.7	35.6	29.1	22.6	19.4
65°	8531.3	3326.2	142.3	85.7	61.4	48.5	37.2	29.1	22.6	16.2	14.6
67.5°	9504.7	3494.3	114.8	69.5	50.1	37.2	30.7	22.6	16.2	11.3	9.7
70°	8309.8	2509.6	88.9	56.6	42.0	29.1	24.3	17.8	11.3	8.1	6.5
72.5°	6261.0	1639.6	66.3	43.7	32.3	24.3	17.8	14.6	9.7	6.5	4.9
75°	4412.8	947.6	48.5	32.3	22.6	17.8	14.6	11.3	8.1	4.9	4.9
77.5°	2262.2	391.3	34.0	22.6	16.2	11.3	9.7	6.5	6.5	4.9	3.2
80°	687.2	129.4	19.4	14.6	11.3	8.1	4.9	4.9	4.9	3.2	1.6
82.5°	156.8	42.0	11.3	11.3	8.1	6.5	4.9	1.6	1.6	0.0	0.0
85°	40.4	12.9	9.7	8.1	8.1	6.5	3.2	1.6	0.0	0.0	0.0
87.5°	14.6	8.1	8.1	8.1	6.5	4.9	3.2	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)